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TI Treatment of cellulose fibers with cationic polyethylene dispersions
PA Badische Anilin- & Soda-Fabrik AG
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PI FR 1557348		19690214	FR	
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CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
FR 1557348	IC	D06M

AB Cellulosic materials are impregnated with an aq. bath contg. .gtoreq.1 low-mol.-wt. compd. contg. N-hydroxymethyl and (or) N-alkoxymethyl groups, .gtoreq.1 acetalization catalyst, and a primary cationic polyethylene dispersion. Use of the primary cationic polyethylene dispersion results in an overall improvement in tech. properties, esp. the dry crease angle, wet crease angle, tear resistance, and Monsanto index, and allows products sensitive to anionic surfactants, e.g. waterproofing paraffin emulsions, to be added. Thus, cotton fabric was impregnated with 105 g./m.2 aq. bath contg. N,N'-bis(hydroxymethyl)hexahydropyrimidin-2-one 6.25, MgCl.6H2O 2, a 7:1 ethylene oxideisooctylphenol addn. product 0.2, and a 30% primary cationic polyethylene dispersion 5%. A similar fabric was impregnated with a similar aq. bath contg. 5% of a primary anionic polyethylene dispersion instead of the cationic dispersion. The 2 samples were squeezed to 80% impregnation, dried, and heated at 155.degree. for 5 min. to give finished samples having dry crease angles in the warp of 269.degree. and 239.degree., in the fill of 253.degree. and 230.degree., wet crease angles in the in the warp 279.degree. and 271.degree., in the fill 257.degree. and 255.degree., Monsanto indexes 5 and 4-5, and Elmendorf tear strengths 688 g. and 624 g., resp. N,N'-Bis(hydroxymethyl)-4,5-dihydroxyimidazolidin-2-one was also used.

ST polyethylene cellulose fibers; cellulose fibers polyethylene; cationic polyethylene dispersions; cotton fabric impregnation; creaseproofing cotton fabric